

In the Abstract:

ABSTRACT

~~The present invention provides methods~~ Methods and compositions are provided for treating a subterranean formation penetrated by a well. The method ~~comprising~~ includes the steps of: (a) forming a treatment fluid, and (b) introducing the treatment fluid into the well and into contact with the formation. ~~According to one aspect, the~~ The treatment fluid ~~comprises~~ includes: (1) water; (2) a water-soluble polysaccharide capable of increasing the viscosity of the water ~~and present in a sufficient concentration to increase the viscosity of the water~~ or a water-soluble polysaccharide and a crosslinking agent for the water-soluble polysaccharide, ~~which are present in a sufficient concentration to effect crosslinking of the of the polysaccharide and increase the viscosity of the water~~; (3) a breaker comprising at least one member selected from the group consisting of a source of chlorite ions and a source of hypochlorite ions, ~~wherein the breaker is present in a sufficient concentration to break the treatment fluid after introduction of the fluid into the subterranean formation~~; and (4) a breaker moderator comprising at least one member selected from the group consisting of a source of magnesium ions and a source of calcium ions, ~~wherein the breaker moderator is present in a sufficient concentration to control the break rate of the fluid.~~